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1 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
2 Applicants: Basiji et al. Attorney Docket No: BIOL0029
3 Serial No: 09/976,238 Group Art Unit: 1639
4 Filed: October 12, 2001 Examiner: Tran, My Chau T.
5 Title: METHODS FOR SYNTHESIZING REPORTER LABELED BEADS

6 ELECTION TRANSMITTAL LETTER

7 Bellevue, Washington 98004

8 December 5, 2002

9 TO THE DIRECTOR OF THE PATENT AND TRADEMARK OFFICE:

10 Transmitted herewith is an Election in Response to Restriction Requirement in the above-
11 identified patent application. No additional claim fee is required, as shown below. Please charge any
12 additional fees or credit any overpayment to Deposit Account No. 01-1940. A copy of this sheet is
13 enclosed.

<u>Computation of Fee For Claims as Amended</u>					
	<u>Claims Remaining after Amendment</u>	<u>Highest Number Previously Paid For</u>	<u>Present Extra</u>	<u>Rate</u>	<u>Additional Fee</u>
Total Claims	40	40	-0-	x \$9	-0-
Independent Claims	10	10	-0-	x \$42	-0-
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					-0-

14 Respectfully submitted,

15 *Ron Anderson*

16 Ronald M. Anderson
17 Registration No. 28,829

18 I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed
19 envelope as first class mail with postage thereon fully prepaid addressed to: Director of Patents and
20 Trademarks, Arlington, VA 22202, on December 5, 2002.

21 Date: December 5, 2002

22 *Kathy Parvizi*



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[Signature]

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Title: METHODS FOR SYNTHESIZING REPORTER LABELED BEADS
ELECTION IN RESPONSE TO RESTRICTION REQUIREMENT

Bellevue, Washington 98004

December 5, 2002

TO THE DIRECTOR OF THE PATENT AND TRADEMARK OFFICE:

The following is in response to a Restriction Requirement dated November 7, 2002, in which the Examiner issued a Restriction of the above-identified patent application. The Examiner asserts that the pending claims are directed to *eight* patentably distinct inventions. The Examiner indicates that a first invention (**Group I**) is directed to a method of constructing a library of reporter labeled beads, and is defined by Claims 1, 2 and 8-12, classified in Class 436, subclass 518. A second invention (**Group II**) is defined by Claims 3-7 and is directed to a method of constructing a library of reporters suitable for labeling beads, classified in Class 435, subclass 174. A third invention (**Group III**) is directed to a method of constructing an optically discriminable reporter and is defined by Claims 13-18, classified in Class 436, subclass 164. A fourth invention (**Group IV**) is defined by Claims 19-23 and is directed to a method of constructing a plurality of reporters, classified in Class 436, subclass 523. A fifth invention (**Group V**) is directed to a method of constructing a library of diverse compounds and is defined by Claims 24-33, classified in Class 435, subclass 4. A sixth invention (**Group VI**) is defined by Claims 34-36 and is directed to a method of constructing a library of diverse compounds using a step-wise synthesis, classified in Class 436, subclass 8. A seventh invention (**Group VII**) is directed to a method of constructing a library of different compounds using a step-wise synthesis and is defined by Claims 37-39, which are classified in Class 435, subclass 180. The eighth invention (**Group VIII**) identified by the Examiner is defined by Claim 40 and is directed to a method of constructing an optically discriminable reporter that is distinguishable by a specific imaging system with an aggregate reporter, classified in Class 436, subclass 169.

The Examiner further indicates that each of the eight inventions is classified in a different class/subclass, thereby requiring eight different searches, and that because such a search would be unduly burdensome, restriction is proper.

In response to the Restriction, applicant hereby elects the first invention indicated by the Examiner as Group I, including Claims 1, 2, and 8-12, with traverse.

Applicants respectfully submit that all claims in the present application are directed to subject matter best classified in Class 436, subclass 518, which is identified as "INVOLVING AN INSOLUBLE

1 CARRIER FOR IMMOBILIZING IMMUNOCHEMICALS," and is specifically directed to subject matter in
2 which an immunological test is carried out using an antigen, antibody or fragment thereof as part of
3 an artificially produced composition or complex or compound, which imparts the property of
4 physical confinement or localization during a immunochemical analysis, and the processes for
5 preparing the same. The carriers in the present instance are insoluble; reporters are immobilized on
6 the carriers; and reporter labeled carriers are useful in immunological analysis. Although an exact
7 match for the present invention does not appear to exist in the classification scheme employed by the
8 U.S. Patent and Trademark Office, it appears that subclass 518 is the best classification for the
9 subject matter recited in all of the pending claims.

10 The Examiner has classified Groups II, V, and VII in an entirely different class (i.e., in
11 Class 435 instead of Class 436). Applicants respectfully disagree, and submit that *none* of the claims
12 in the present invention relate to Class 435, which is specifically directed to:

13 A. A process of using a *microorganism* or *enzyme* to synthesize a chemical
14 product.

15 B. A process of treating a material with a *microorganism* or *enzyme* to
16 separate, liberate, or purify a preexisting substance.

17 C. An in vitro process of measuring and testing in which: (1) A
18 *microorganism* or *enzyme* is used to determine the presence or identity of a
19 compound or composition in a sample; (2) A *microorganism* is identified by
20 propagation; (3) An *enzyme* is identified by its catalytic activity; (4) The
21 presence of *microorganisms* is detected; (5) A live *microorganism* is used in
an antigen antibody test as an antigen; (6) Fixed or stabilized nonliving
microorganisms, cells, or tissues are involved.

22 D. A process of propagating a *microorganisms*.

23 E. A process in which the genetic structure of a *microorganisms* or
24 extrachromosomal genetic structure is altered.

25 F. A process of *organ* or *tissue maintenance*.

26 G. A process of *mashing* or *malting*.

27 H. Apparatus claimed or solely disclosed as useful for A-G.

28 I. *Microorganisms*, per se, or the subcellular parts thereof.

29 J. *Enzymes*, immobilized enzymes or enzyme containing compositions not
30 otherwise provided for and the processes for purifying enzymes or forming
31 immobilized enzymes.

32 K. Compositions claimed or solely disclosed as for the propagation of
33 *microorganisms* or for measuring and testing processes in C above.

34 L. Using *microorganisms* to destroy hazardous or toxic waste.
35

1 The claims associated with Groups II, V, and VII (as defined by the Examiner in the restriction)
2 do not recite *enzymes* or *microorganisms*, or involve *mashing/malting* or *tissue/organ maintenance*. It
3 appears that based on the U.S. PTO definitions of Class 435 and Class 436, the claims associated with
4 Groups II, V, and VII more closely correspond to Class 436 than Class 435. The Examiner has not
5 provided any justification for a conclusion that any of the claims defined in the present application relate
6 to enzymes, microorganisms, malting/mashing, or tissue/organ maintenance (i.e., to Class 435).

7 Both Group I and Group III deal with optically discriminable reporters, and thus logically, both
8 groups should be classified in the same class/subclass. Subclass 164 (in which the Examiner indicates
9 Group III should be searched) specifically deals with subject matter *wherein the basis for analysis is an*
10 *optical result of a chemical reaction that is measured mechanically or visually*. However, the claims
11 associated with Groups I and III are directed to methods for producing reporters and libraries, and not to a
12 method for mechanically or visually measuring an optical result of a chemical reaction, even though it is
13 true that the reporters in applicants' invention can be optically distinguished. Neither of Groups I or III
14 are properly classified in subclass 164. The claims assigned to Groups I, II, and IV-VIII all include at
15 least one optically distinguishable element (reporters or carriers), and the claims in Groups IV and VIII
16 specifically recite an imaging system. It is thus not clear why if Group III is searched in subclass 164,
17 subclass 164 should not also be searched for prior art relating to the other groups reciting optically
18 distinguishable elements and imaging systems. Because Group III is directed to a method for producing
19 an optically discriminable element, and the claims defined by other groups similarly relate to optically
20 distinguishable elements, it appears that the subject matter of the claims in Groups I-III, V, and VII are
21 more properly classified in Class 436, subclass 518, and therefore should be examined together.

22 The Examiner has indicated that the subject matter of the claims in Group 4 is classified in
23 Class 436, subclass 523. Applicants note that subclass 523 is closely related to subclass 518, and
24 deals with *subject matter wherein the carrier is particulate and the particles are formed or chosen to*
25 *be different sizes or are coated with chemically different coatings*. Applicants note that the subject
26 matter of the claims in Group IV relates to using reporters that are too small to be individually
27 discriminable using an imaging system, to generate a library of discriminable reporters that comprise
28 aggregates of the smaller reporters. The aggregate reporters thus produced are clearly optically
29 discriminable. These aggregates are not necessarily of different size, but can be identical in size and
30 different in composition. It appears that the subject matter of the claims in Group IV is similar
31 enough to that of the claims in Groups I-III, V, and VII, so that the search for related prior art should
32 be made in the same Class and subclass.

33 The Examiner has indicated that the claims in Group VI should be search in Class 436,
34 subclass 8. Applicants note that subclass 8 is directed to *compositions, which are used to mimic or*
35 *quantify the effect, in a chemical test procedure, of another chemical composition, or to stabilize,*

1 *preserve or otherwise prepare a sample for a chemical test and the processes of use of such materials*
2 *preparatory to a chemical test procedure.* However, the subject matter of Group VI is directed to a
3 library of compounds that each include optically distinct carriers, and that library is not related to the
4 uses described for inventions classified under subclass 8. Further, the subject matter of Groups I, II,
5 and V is directed to libraries, and it is not clear why such similar inventions should be classified
6 differently. It appears that the subject matter of claims in Group VI is so closely related to that of the
7 claims in Groups I-V and VII that all the subject matter of all these groups should be in the same
8 Class and subclass and examined together.

9 Finally, the Examiner has indicated that the subject matter of Group VIII is classified in
10 Class 436, subclass 169. Subclass 169 is applicable to inventions wherein the material to be analyzed
11 is reacted with a reagent contained in absorbent or bibulous carrier or substrate. The classification
12 manual specifically mentions *test strips, wicks, and dip-sticks* as examples of this class/subclass. The
13 claims in Group VIII relate to constructing optically discriminable reporters, which are unrelated to
14 test strips, wicks, and dip-sticks. However, optically discriminable reporters are so related to the
15 subject matter of Groups I-VII, that logically, all the claims in all of these groups should be classified
16 and examined together. If properly classified, it will be apparent that substantially the same effort
17 will be required to search for related prior art for all of the claims in this case. Accordingly,
18 applicants request that the Examiner withdraw the Restriction.

19
20 Respectfully submitted,

21 *Ron Anderson*
22

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27 envelope as first class mail with postage thereon fully prepaid addressed to: Director of Patents and
28 Trademarks, Arlington, VA 22202, on December 5, 2002.

29 Date: December 5, 2002
30 RMA/MCK:
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34
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Kathy Paulino